

## Ref. 22

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TI Preparation of water type urethane compound - by radical polymerisation of urethane and unsaturated monomer using no organic solvents.  
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Preparation of a water type urethane compound prepared by radical polymerisation urethane and an unsaturated monomer comprises, using no **organic solvents**, (a) reacting polyols and organic isocyanates in an unsaturated monomer containing at least one OH group and one unsaturated group in a molecule to obtain a urethane prepolymer (containing end-isocyanate groups and having a molecular weight of up to 20000) solution (A) in unsaturated monomer; (b) dispersing (A) in water to obtain (B) an **aqueous dispersion of urethane prepolymer** in unsaturated monomer; (c) chain-extending (B) to obtain an aqueous dispersion (C) of polyurethane in unsaturated monomer; and (d) polymerising (c).  
ADVANTAGE - The preparation uses no organic solvents.  
Dwg. 0/0